HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70°C (A)	$R_{\theta A}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_A = 25°C (W)	Fax-on-Demand

Surface Mount

Micro3™ (SOT-23)

N-Channel	*Logic Level*						
IRLML2402*	**20**	**0.25**	**0.93**	**0.74**	**370**	**340**	**91257**
IRLML2803	**30**	**0.25**	**0.91**	**0.73**	**370**	**340**	**91258**
P-Channel	*Logic Level*						
IRLML5103	**-30**	**0.6**	**-0.6**	**-0.48**	**370**	**280**	**91260**
IRLML6302*	**-20**	**0.6**	**-0.61**	**-0.49**	**370**	**280**	**91259**

** Indicates low VGS(th), which can operate at VGS= 2.75V*

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Surface Mount

Micro6™

N-Channel	*Logic Level*						
IRLMS1503	**30**	**0.1**	**2.2**	**1.8**	**160**	**780**	**91508**
IRLMS1902*	**20**	**0.1**	**2.2**	**1.8**	**160**	**780**	**91540**
P-Channel	*Logic Level*						
IRLMS5703	**-30**	**0.2**	**-1.6**	**-1.3**	**75**	**780**	**91413**
IRLMS6702*	**-20**	**0.2**	**-1.6**	**-1.3**	**160**	**780**	**91414**

** Indicates low VGS(th), which can operate at VGS= 2.75V*

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70°C (A)	$R_{\theta A}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_A = 25°C (W)	Fax-on-Demand
Surface Mount							**Micro8™**
N-Channel	*Logic Level*						
IRF7601*	**20**	**0.035**	**3.8**	**3**	**160**	**780**	**91261**
IRF7603	**30**	**0.035**	**3.7**	**3**	**160**	**780**	**91262**
Dual N-Channel	*Logic Level*						
IRF7501*	**20**	**0.135**	**1.7**	**1.4**	**200**	**625**	**91265**
IRF7503	**30**	**0.135**	**1.7**	**1.4**	**200**	**625**	**91266**
P-Channel	*Logic Level*						
IRF7604*	**-20**	**0.09**	**-2.4**	**-1.9**	**160**	**780**	**91263**
IRF7606	**-30**	**0.09**	**-2.4**	**-1.9**	**160**	**780**	**91264**
Dual P-Channel	*Logic Level*						
IRF7504*	**-20**	**0.27**	**-1.2**	**-0.96**	**200**	**625**	**91267**
IRF7506	**-30**	**0.27**	**-1.2**	**-0.96**	**200**	**625**	**91268**
Dual N- and P-Channel	*Logic Level*						
IRF7507*	**20**	**0.135**	**1.7**	**1.3**	**200**	**625**	**91269**
	-20	**0.27**	**-1.2**	**-0.96**	**200**	**625**	**91269**
IRF7509	**30**	**0.135**	**1.7**	**1.3**	**200**	**625**	**91270**
	-30	**0.27**	**-1.2**	**-0.96**	**200**	**625**	**91270**

** Indicates low VGS(th), which can operate at VGS = 2.75V*

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70°C (A)	$R_{\theta A}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_A = 25°C (W)	Fax-on-Demand

Surface Mount **SO-8**

Part Number	V (V)	R (Ω)	ID 25°C (A)	ID 70°C (A)	RθA (°C/W)	PD (W)	Fax-on-Demand
N-Channel							
IRF7413	**30**	**0.011**	**10**	**5.8**	**62.5**	**2**	**91330**
N-Channel	*Logic Level*						
IRF7201	**30**	**0.03**	**7**	**5.6**	**80**	**1.6**	**91100**
IRF7401	**20**	**0.022**	**6.9**	**5.5**	**80**	**1.6**	**91244**
IRF7403	**30**	**0.022**	**6.7**	**5.4**	**80**	**1.6**	**91245**
Dual N-Channel	*Logic Level*						
IRF7101	**20**	**0.1**	**3.5**	**2.3**	**90**	**1.4**	**90871**
IRF7103	**50**	**0.13**	**3**	**2.3**	**90**	**1.4**	**91095**
IRF7301	**20**	**0.05**	**4.3**	**3.4**	**90**	**1.4**	**91238**
IRF7303	**30**	**0.05**	**4**	**3.2**	**90**	**1.4**	**91239**
IRF7311	**20**	**0.026**	**5.9**	**4.1**	**0.026**	**1.4**	**91435**
IRF7313	**30**	**0.029**	**6.5**	**5.2**	**62.5**	**2**	**91480**
IRF9956	**30**	**0.1**	**3.5**	**2.8**	**62.5**	**2**	**91559**
P-Channel	*Logic Level*						
IRF7204	**-20**	**0.06**	**-5.3**	**-4.2**	**80**	**1.6**	**91103**
IRF7205	**-30**	**0.07**	**-4.6**	**-3.7**	**80**	**1.6**	**91104**
IRF7404	**-20**	**0.04**	**-5.3**	**-4.3**	**80**	**1.6**	**91246**
IRF7406	**-30**	**0.045**	**-4.7**	**-3.8**	**80**	**1.6**	**91247**
IRF7416	**-30**	**0.02**	**-8.8**	**-5.6**	**50**	**1**	**91356**



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 70°C (A)	$R_{\theta A}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_A = 25°C (W)	Fax-on-Demand

Surface Mount

SO-8

Dual P-Channel	*Logic Level*						
IRF7104	-20	0.25	-2.3	-1.8	90	1.4	91096
IRF7304	-20	0.09	-3.6	-2.9	90	1.4	91240
IRF7306	-30	0.1	-3	-2.4	90	1.4	91241
IRF7314	-20	0.053	-4.2	-2.9	190	1.4	91435
IRF7316	-30	0.058	-4.9	-3.9	62.5	2	91505
IRF9953	-30	0.25	-2.3	-1.8	62.5	2	91560
Dual N- and P-Channel	*Logic Level*						
IRF7105	25	0.1	3.5	2.8	90	1.4	91097
	-20	0.27	-1.2	-0.96	200	625	91097
IRF7307	20	0.05	4.3	3.4	90	1.4	91242
	-20	0.09	-4	-2.9	90	1.4	91242
IRF7309	30	0.05	4	3.2	90	1.4	91243
	-30	0.1	-3.5	-2.4	90	1.4	91243
IRF9952	30	0.1	3.5	2.8	62.5	2	91562
	-30	0.25	-2.3	-1.8	62.5	2	91562

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	VFM Forward Voltage Drop @ Tj = 25°C	Fax-on-Demand
Surface Mount								**FETKY™ SO-8**
N-Channel	*FETKY (Co-packaged HEXFET Power MOSFET and Schottky Diode)*							
IRF7421D1	**30**	**0.035**	**4.1**	**3.3**	**50**	**2.5**	**0.50V @ 1.0A**	**91411**
IRF7422D2	**-20**	**0.09**	**-2.9**	**-2.3**	**50**	**2.5**	**0.57V @ 3.0A**	**91412**

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta JA}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Surface Mount

SOT-223 (TO-261AA)

N-Channel							
IRFL014	**60**	**0.2**	**2.7**	**1.7**	**60**	**2**	**90860**
IRFL110	**100**	**0.54**	**1.5**	**0.96**	**60**	**2**	**90861**
IRFL210	**200**	**1.5**	**0.96**	**0.6**	**60**	**2**	**90868**
IRFL214	**250**	**2**	**0.79**	**0.5**	**60**	**2**	**90862**
IRFL4105	**55**	**0.045**	**3.7**		**60**	**2.1**	**91381**
IRFL4310	**100**	**0.2**	**1.6**		**60**	**2.1**	**91368**
N-Channel	*Logic Level*						
IRLL014N	**55**	**0.14**	**2.8**	**1.6**	**60**	**2.1**	**91499**
IRLL110	**100**	**0.54**	**1.5**	**0.93**	**40**	**3.1**	**90869**
IRLL2705	**55**	**0.04**	**5.2**	**3**	**60**	**2.1**	**91380**
IRLL3303	**30**	**0.031**	**6.5**	**3.7**	**60**	**2.1**	**91379**
P-Channel							
IRFL9014	**-60**	**0.5**	**-1.8**	**-1.1**	**60**	**2**	**90863**
IRFL9110	**-100**	**1.2**	**-1.1**	**-0.69**	**60**	**2**	**90864**



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Surface Mount

TO-252AA (D-Pak)

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D 25°C (A)	I_D 100°C (A)	$R_{\theta C}$ (°C/W)	P_D (W)	Fax-on-Demand
N-Channel							
IRFR014	60	0.2	7.7	4.9	5	25	90701
IRFR024N	55	0.075	16	10	3.3	38	91336
IRFR110	100	0.54	4.3	2.7	5	25	90524
IRFR1205	55	0.027	37	23	1.8	69	91318
IRFR120N	100	0.21	9.1	5.8	3.2	39	91365
IRFR210	200	1.5	2.6	1.7	5	25	90526
IRFR214	250	2	2.2	1.4	5	25	90703
IRFR220	200	0.8	4.8	3	3	42	90525
IRFR224	250	1.1	3.8	2.4	3	42	90600
IRFR310	400	3.6	1.7	1.1	5	25	90597
IRFR320	400	1.8	3.1	2	3	42	90598
IRFR3910	100	0.11	15	9.5	2.4	52	91364
IRFR4105	55	0.045	25	16	2.7	48	91302
IRFR420	500	3	2.4	1.5	3	42	90599
IRFRC20	600	4.4	2	1.3	3	42	90637
N-Channel	*Logic Level*						
IRLR014	60	0.2	7.7	4.9	5	25	90624
IRLR024N	55	0.065	17	11	3.3	38	91363
IRLR110	100	0.54	4.3	2.7	5	25	90633
IRLR120	100	0.27	7.7	4.9	3	42	90636



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta JC}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
Surface Mount							**TO-252AA (D-Pak)**
IRLR2703	**30**	**0.045**	**22**	**14**	**3.3**	**38**	**91335**
IRLR2905	**55**	**0.027**	**36**	**23**	**1.8**	**69**	**91334**
IRLR3103	**30**	**0.019**	**46**	**29**	**1.8**	**69**	**91333**
P-Channel							
IRFR9014	**-60**	**0.5**	**-5.1**	**-3.2**	**5**	**25**	**90654**
IRFR9024	**-60**	**0.28**	**-8.8**	**-5.6**	**3**	**42**	**90655**
IRFR9110	**-100**	**1.2**	**-3.1**	**-2**	**5**	**25**	**90519**
IRFR9120	**-100**	**0.6**	**-5.6**	**-3.6**	**3**	**42**	**90520**
IRFR9210	**-200**	**3**	**-1.9**	**-1.2**	**5**	**25**	**90521**
IRFR9220	**-200**	**1.5**	**-3.6**	**-2.3**	**3**	**42**	**90522**
P-Channel	*Logic Level*						
IRLR2705	**55**	**0.04**	**24**	**15**	**2.7**	**46**	**91317**

HEXFET® Power MOSFETs

International

Rectifier

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete

TO-251AA (I-Pak)

Part Number	V	Ω	25°C A	100°C A	°C/W	W	Fax-on-Demand
N-Channel							
IRFU014	60	0.2	7.7	4.9	5	25	90701
IRFU024N	55	0.075	16	10	3.3	38	91336
IRFU110	100	0.54	4.3	2.7	5	25	90524
IRFU1205	55	0.027	37	23	1.8	69	91318
IRFU120N	100	0.21	9.1	5.8	3.2	39	91365
IRFU210	200	1.5	2.6	1.7	5	25	90526
IRFU214	250	2	2.2	1.4	5	25	90703
IRFU220	200	0.8	4.8	3	3	42	90525
IRFU224	250	1.1	3.8	2.4	3	42	90600
IRFU310	400	3.6	1.7	1.1	5	25	90597
IRFU320	400	1.8	3.1	2	3	42	90598
IRFU3910	100	0.11	15	9.5	2.4	52	91364
IRFU4105	55	0.045	25	19	2.7	48	91302
IRFU420	500	3	2.4	1.5	3	42	90599
IRFUC20	600	4.4	2	1.3	3	42	90637
N-Channel	*Logic Level*						
IRLU014	60	0.2	7.7	4.9	5	25	90624
IRLU024N	55	0.065	17	11	3.3	38	91363
IRLU110	100	0.54	4.3	2.7	5	25	90633
IRLU120	100	0.27	7.7	4.9	3	42	90636



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete — **TO-251AA (I-Pak)**

IRLU2703	30	0.045	22	14	3.3	38	91335
IRLU2705	55	0.04	24	0	15	46	91317
IRLU2905	55	0.027	36	23	1.8	69	91334
IRLU3103	30	0.019	46	29	1.8	69	91333
P-Channel							
IRFU9014	-60	0.5	-5.1	-3.2	5	25	90654
IRFU9024	-60	0.28	-8.8	-5.6	3	42	90655
IRFU9110	-100	1.2	-3.1	-2	5	25	90519
IRFU9120	-100	0.6	-5.6	-3.6	3	42	90520
IRFU9210	-200	3	-1.9	-1.2	5	25	90521
IRFU9220	-200	1.5	-3.6	-2.3	3	42	90522

HEXFET® Power MOSFETs



Discrete

HEXDIP (HD-1)

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
N-Channel							
IRFD014	**60**	**0.2**	**1.7**	**1.2**	**120**	**1.3**	**90700**
IRFD024	**60**	**0.1**	**2.5**	**1.8**	**120**	**1.3**	**90699**
IRFD110	**100**	**0.54**	**1**	**0.71**	**120**	**1.3**	**90328**
IRFD120	**100**	**0.27**	**1.3**	**0.94**	**120**	**1.3**	**90385**
IRFD210	**200**	**1.5**	**0.6**	**0.38**	**120**	**1.3**	**90386**
IRFD214	**250**	**2**	**0.57**	**0.32**	**120**	**1.3**	**91271**
IRFD220	**200**	**0.8**	**0.8**	**0.5**	**120**	**1.3**	**90417**
IRFD224	**250**	**1.1**	**0.76**	**0.43**	**120**	**1.3**	**91272**
IRFD310	**400**	**3.6**	**0.42**	**0.23**	**120**	**1.3**	**91225**
IRFD320	**400**	**1.8**	**0.6**	**0.33**	**120**	**1.3**	**91226**
IRFD420	**500**	**3**	**0.46**	**0.26**	**120**	**1.3**	**91227**
IRFDC20	**600**	**4.4**	**0.32**	**0.21**	**120**	**1.3**	**91228**
N-Channel	*Logic Level*						
IRLD014	**60**	**0.2**	**1.7**	**1.2**	**120**	**1.3**	**90628**
IRLD024	**60**	**0.1**	**2.5**	**1.8**	**120**	**1.3**	**90629**
IRLD110	**100**	**0.54**	**1**	**0.7**	**120**	**1.3**	**90635**
IRLD120	**100**	**0.27**	**1.3**	**0.94**	**120**	**1.3**	**90634**
P-Channel							
IRFD9014	**-60**	**0.5**	**-1.1**	**-0.8**	**120**	**1.3**	**90696**
IRFD9024	**-60**	**0.28**	**-1.6**	**-1.1**	**120**	**1.3**	**90698**

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta JC}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
IRFD9110	-100	1.2	-0.7	-0.49	120	1.3	90389
IRFD9120	-100	0.6	-1	-0.7	120	1.3	90331
IRFD9210	-200	3	-0.4	-0.25	120	1.3	90387
IRFD9220	-200	1.5	-0.56	-0.36	120	1.3	90439

Discrete

HEXDIP (HD-1)

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Surface Mount D2Pak

N-Channel	*FETKY (Co-packaged HEXFET Power MOSFET and Schottky Diode)*						
IRL3103D1S	**30**	**0.014**	**54**	**34**	**1.8**	**3.1**	**91558**
N-Channel							
IRF1010NS	**55**	**0.012**	**72**	**51**	**1.2**	**3.8**	**91372**
IRF1310NS	**100**	**0.036**	**36**	**25**	**1.3**	**120**	**91514**
IRF3205S	**55**	**0.008**	**98**	**69**	**1**	**150**	**91304**
IRF3415S	**150**	**0.042**	**37**	**26**	**1**	**150**	**91509**
IRF3710S	**100**	**0.028**	**46**	**33**	**1**	**150**	**91310**
IRF510S	**100**	**0.54**	**5.6**	**4**	**3.5**	**43**	**90895**
IRF520NS	**100**	**0.2**	**9.5**	**6.7**	**3.2**	**47**	**91340**
IRF530NS	**100**	**0.11**	**15**	**11**	**2.4**	**63**	**91352**
IRF530S	**100**	**0.16**	**14**	**10**	**1.7**	**88**	**90897**
IRF540NS	**100**	**0.052**	**27**	**19**	**1.6**	**110**	**91342**
IRF540S	**100**	**0.077**	**28**	**20**	**1**	**150**	**90898**
IRF610S	**200**	**1.5**	**3.3**	**2.1**	**3.5**	**36**	**90899**
IRF614S	**250**	**2**	**2.7**	**1.7**	**3.5**	**36**	**91003**
IRF620S	**200**	**0.8**	**5.2**	**3.3**	**2.5**	**50**	**90900**
IRF624S	**250**	**1.1**	**4.4**	**2.8**	**2.5**	**50**	**91004**
IRF630S	**200**	**0.4**	**9**	**5.7**	**1.7**	**74**	**90901**
IRF634S	**250**	**0.45**	**8.1**	**5.1**	**1.7**	**74**	**91005**
IRF640S	**200**	**0.18**	**18**	**11**	**1**	**125**	**90902**

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Surface Mount

D2Pak

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D 25°C (A)	I_D 100°C (A)	$R_{\theta C}$ (°C/W)	P_D (W)	Fax-on-Demand
IRF644S	250	0.28	14	8.5	1	125	91006
IRF710S	400	3.6	2	1.2	3.5	36	91007
IRF720S	400	1.8	3.3	2.1	2.5	50	91008
IRF730S	400	1	5.5	3.3	1.7	74	91009
IRF740S	400	0.55	10	6.3	1	125	91010
IRF820S	500	3	2.5	1.6	2.5	50	91011
IRF830S	500	1.5	4.5	2.9	1.7	74	91012
IRF840S	500	0.85	8	5.1	1	125	91013
IRFZ14S	60	0.2	10	7.2	3.5	43	90890
IRFZ24NS	55	0.07	17	12	3.3	45	91355
IRFZ24S	60	0.1	17	12	2.5	60	90891
IRFZ34NS	55	0.04	26	18	2.7	56	91311
IRFZ34S	60	0.05	30	21	1.7	88	90892
IRFZ44N	55	0.024	41	29	1.8	83	91303
IRFZ44NS	60	0.028	50	36	1	150	91315
IRFZ44S	60	0.028	50	36	1	150	90893
IRFZ46NS	55	0.02	46	33	1.7	88	91305
IRFZ46S	50	0.024	50	38	1	150	90922
IRFZ48NS	60	0.016	53	37	1.6	3.8	91408
IRFZ48S	60	0.018	50	50	0.8	190	90894
IRL2505S	55	0.008	90	64	1	2.1	91326
IRL2703S	30	0.04	24	17	3.3	130	91360

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
Surface Mount							D2Pak
IRL530NS	**100**	**0.1**	**15**	**11**	**2.4**	**63**	**91349**
IRL620S	**200**	**0.8**	**5.2**	**3.3**	**2.5**	**50**	**91218**
N-Channel	*Logic Level*						
IRL2203NS	**30**	**0.007**	**100**	**71**	**1.2**	**130**	**91367**
IRL3103S	**30**	**0.014**	**56**	**40**	**1.8**	**83**	**91338**
IRL3303S	**30**	**0.026**	**34**	**24**	**2.7**	**56**	**91323**
IRL3705NS	**55**	**0.01**	**77**	**54**	**1.2**	**3.8**	**91502**
IRL3803S	**30**	**0.006**	**120**	**83**	**1**	**150**	**91319**
IRL510S	**100**	**0.54**	**5.6**	**4**	**3.5**	**43**	**90907**
IRL520S	**100**	**0.27**	**9.2**	**6.5**	**2.5**	**60**	**90896**
IRL530S	**100**	**0.16**	**15**	**10**	**1.7**	**88**	**90909**
IRLZ14S	**60**	**0.2**	**10**	**7.2**	**3.5**	**43**	**90903**
IRLZ24NS	**55**	**0.06**	**18**	**13**	**3.3**	**45**	**91358**
IRLZ24S	**60**	**0.1**	**17**	**12**	**2.5**	**60**	**90904**
IRLZ34NS	**55**	**0.035**	**27**	**19**	**2.7**	**56**	**91308**
IRLZ34S	**60**	**0.05**	**30**	**21**	**1.7**	**88**	**90905**
IRLZ44NS	**55**	**0.022**	**41**	**29**	**1.8**	**83**	**91347**
IRLZ44S	**60**	**0.028**	**50**	**36**	**1**	**150**	**90906**
P-Channel							
IRF4905S	**-55**	**0.02**	**-64**	**-45**	**1**	**150**	**91478**
IRF5210S	**-100**	**0.06**	**-35**	**-25**	**1**	**150**	**91405**



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
Surface Mount							**D²Pak**
IRF9510S	-100	1.2	-4	-2.8	3.5	43	90914
IRF9520S	-100	0.6	-6.8	-4.8	2.5	60	90915
IRF9530S	-100	0.3	-12	-8.2	1.7	88	90916
IRF9540S	-100	0.2	-19	-13	1	150	90917
IRF9610S	-200	3	-1.8	-1	6.4	20	90918
IRF9620S	-200	1.5	-2.5	-2	3.1	40	90919
IRF9630S	-200	0.8	-6.5	-4	1.7	74	90920
IRF9640S	-200	0.5	-11	-6.8	1	125	90921
IRF9Z14S	-60	0.5	-6.7	-4.7	3.5	43	90911

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Q Total Drain Current 0 (nC)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Qg Total Gate Charge (nC)	Fax-on-Demand

Discrete

TO-220AB

N-Channel *Low Charge*

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D (A)	I_D Q Total (nC)	$R_{\theta C}$ (°C/W)	P_D (W)	Qg (nC)	Fax-on-Demand
IRF737LC	**300**	**0.75**	**6.1**		**1.7**	**74**	**3.9**	**91314**
IRF740LC	**400**	**0.55**	**10**		**1**	**125**	**39**	**91068**
IRF840LC	**500**	**0.85**	**8**		**1**	**125**	**39**	**91069**
IRFBC40LC	**600**	**1.2**	**6.2**		**1**	**125**	**39**	**91070**

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete — **TO-220AB**

N-Channel	*FETKY (Co-packaged HEXFET Power MOSFET and Schottky Diode)*						
IRL3103D1	**30**	**0.014**	**54**	**34**	**1.8**	**2**	**91608**
N-Channel							
IRF1010N	**55**	**0.012**	**72**	**51**	**1.2**	**130**	**91278**
IRF1310N	**100**	**0.036**	**36**	**25**	**1.3**	**120**	**91611**
IRF3205	**55**	**0.008**	**98**	**69**	**1**	**150**	**91279**
IRF3415	**150**	**0.042**	**37**	**26**	**1**	**150**	**91477**
IRF3710	**100**	**0.028**	**46**	**33**	**1**	**150**	**91309**
IRF510	**100**	**0.54**	**5.6**	**4**	**3.5**	**43**	**90325**
IRF520N	**100**	**0.2**	**9.5**	**6.7**	**9.5**	**47**	**91339**
IRF530N	**100**	**0.11**	**15**	**11**	**2.4**	**60**	**91351**
IRF540N	**100**	**0.052**	**27**	**19**	**1.6**	**94**	**91341**
IRF610	**200**	**1.5**	**3.3**	**2.1**	**3.5**	**36**	**90326**
IRF614	**250**	**2**	**2.7**	**1.7**	**3.5**	**36**	**90475**
IRF620	**200**	**0.8**	**5.2**	**3.3**	**2.5**	**50**	**90317**
IRF624	**250**	**1.1**	**4.4**	**2.8**	**2.5**	**50**	**90472**
IRF630	**200**	**0.4**	**9**	**5.7**	**1.7**	**74**	**90309**
IRF634	**250**	**0.45**	**8.1**	**5.1**	**1.7**	**74**	**90476**
IRF640	**200**	**0.18**	**18**	**11**	**1**	**125**	**90374**
IRF644	**250**	**0.28**	**14**	**8.5**	**1**	**125**	**90527**
IRF710	**400**	**3.6**	**2**	**1.2**	**3.5**	**36**	**90327**



Discrete

TO-220AB

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
IRF720	400	1.8	3.3	2.1	2.5	50	90315
IRF730	400	1	5.5	3.3	1.7	74	90308
IRF734	450	1.2	4.9	3.1	1.7	74	90999
IRF740	400	0.55	10	6.3	1	125	90375
IRF744	450	0.63	8.8	5.6	1	125	91000
IRF820	500	3	2.5	1.6	2.5	50	90324
IRF830	500	1.5	4.5	2.9	1.7	74	90311
IRF840	500	0.85	8	5.1	1	125	90376
IRFBC20	600	4.4	2.2	1.4	2.5	50	90623
IRFBC30	600	2.2	3.6	2.3	1.7	74	90482
IRFBC40	600	1.2	6.2	3.9	1	125	90506
IRFBE20	800	6.5	1.8	1.2	2.3	54	90610
IRFBE30	800	3	4.1	2.6	2	125	90613
IRFBF20	900	8	1.7	1.1	2.3	54	90607
IRFBF30	900	3.7	3.6	2.3	1	125	90616
IRFBG20	1000	11	1.4	0.86	2.3	54	90604
IRFBG30	1000	5	3.1	2	1	125	90620
IRFZ14	60	0.2	10	7.2	3.5	43	90507
IRFZ24N	55	0.07	17	12	3.3	45	91354
IRFZ34N	55	0.04	26	18	2.7	56	91276
IRFZ46N	55	0.02	46	33	1.7	88	91277
IRFZ48N	55	0.016	53	37	1.6	94	91406



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete **TO-220AB**

N-Channel	*Logic Level*						
IRL2203N	**30**	**0.007**	**100**	**71**	**1.2**	**130**	**91366**
IRL3103	**30**	**0.014**	**56**	**40**	**1.8**	**83**	**91337**
IRL3303	**30**	**0.026**	**34**	**24**	**2.7**	**56**	**91322**
IRL3705N	**55**	**0.01**	**77**	**54**	**1.2**	**130**	**91370**
IRL3803	**30**	**0.006**	**120**	**83**	**1**	**150**	**91301**
IRL520N	**100**	**3.2**	**10**	**7.1**	**3.2**	**47**	**91494**
IRL530N	**100**	**0.1**	**15**	**11**	**2.4**	**63**	**91348**
IRL540N	**100**	**0.044**	**30**	**21**	**1.6**	**94**	**91495**
IRL640	**200**	**0.18**	**17**	**11**	**1**	**125**	**91089**
IRLI2203N	**30**	**0.007**	**61**	**43**	**3.2**	**47**	**91378**
IRLZ14	**60**	**0.2**	**10**	**7.2**	**3.5**	**43**	**90556**
IRLZ24N	**55**	**0.06**	**18**	**13**	**3.3**	**45**	**91357**
IRLZ34N	**55**	**0.035**	**27**	**19**	**2.7**	**56**	**91307**
IRLZ44N	**55**	**0.022**	**41**	**29**	**1.8**	**83**	**91346**
P-Channel							
IRF4905	**-55**	**0.02**	**-64**	**-45**	**1**	**150**	**91280**
IRF9510	**-100**	**1.2**	**-4**	**-2.8**	**3.5**	**43**	**90390**
IRF9520	**-100**	**0.6**	**-6.8**	**-4.8**	**2.5**	**60**	**90319**
IRF9530N	**-100**	**0.2**	**-13**	**-9.2**	**2**	**75**	**91482**
IRF9540N	**-100**	**0.117**	**-19**	**-13**	**1.6**	**94**	**91437**

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete

TO-220AB

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D 25°C (A)	I_D 100°C (A)	$R_{\theta C}$ (°C/W)	P_D (W)	Fax-on-Demand
IRF9610	-200	3	-1.8	-1	6.4	20	90350
IRF9620	-200	1.5	-2.5	-2	3.1	40	90351
IRF9630	-200	0.8	-6.5	-4	1.7	74	90352
IRF9640	-200	0.5	-11	-6.8	1	125	90422
IRF9Z14	-60	0.5	-6.7	-4.7	3.5	43	90736
IRF9Z24N	-55	0.175	-12	-8.5	3.3	45	91484
IRF9Z34N	-55	0.1	-17	-12	2.7	56	92001

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Q Total Drain Current 0 (nC)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Qg Total Gate Charge (nC)	Fax-on-Demand

Fully Isolated

TO-220 FullPak

N-Channel	*Low Charge*							
IRFI740GLC	**400**	**0.55**	**6**		**3.1**	**40**	**39**	**91209**
IRFI840GLC	**500**	**0.85**	**4.8**		**3.1**	**40**	**39**	**91208**
IRFIBC40GLC	**600**	**1.2**	**4**		**3.1**	**40**	**39**	**91211**



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Fully Isolated — **TO-220 Full-Pak**

N-Channel

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D 25°C (A)	I_D 100°C (A)	$R_{\theta C}$ (°C/W)	P_D (W)	Fax-on-Demand
IRFI1010N	55	0.012	44	31	3.2	47	91373
IRFI1310N	100	0.036	22	16	3.3	45	91611
IRFI3205	55	0.008	56	40	3.1	48	91374
IRFI510G	100	0.54	4.5	3.2	5.5	27	90829
IRFI520N	100	0.2	7.2	5.1	5.5	27	91362
IRFI530N	100	0.11	11	7.8	4.5	33	91353
IRFI540N	100	0.052	18	13	3.6	42	91361
IRFI614G	250	2	2.1	1.3	5.5	23	90831
IRFI620G	200	0.8	4.1	2.6	4.1	30	90832
IRFI624G	250	1.1	3.4	2.2	4.1	30	90833
IRFI630G	200	0.4	5.9	3.7	3.6	32	90652
IRFI634G	250	0.45	5.6	3.5	3.6	32	90738
IRFI640G	200	0.18	9.8	6.2	3.1	40	90649
IRFI644G	250	0.28	7.9	5	3.1	40	90739
IRFI720G	400	1.8	2.6	1.7	4.1	30	90834
IRFI730G	400	1	3.7	2.3	3.6	32	90650
IRFI734G	450	1.2	3.4	2.1	3.6	35	91001
IRFI740G	400	0.55	5.4	3.4	3.1	40	90651
IRFI744G	450	0.63	4.9	3.1	3.1	40	91002
IRFI820G	500	3	2.1	1.3	4.1	30	90641

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
Fully Isolated							**TO-220 FullPak**
IRFI830G	500	1.5	3.1	2	3.6	32	90646
IRFI840G	500	0.85	4.6	2.9	3.1	40	90642
IRFIBC20G	600	4.4	1.7	1.1	4.1	30	90850
IRFIBC30G	600	2.2	2.5	1.6	3.6	35	90851
IRFIBC40G	600	1.2	3.5	2.2	3.1	40	90852
IRFIBE20G	800	6.5	1.4	0.86	4.1	30	90853
IRFIBE30G	800	3	2.1	1.4	3.6	35	90854
IRFIBF20G	900	8	1.2	0.79	4.1	30	90855
IRFIBF30G	900	3.7	1.9	1.2	3.6	35	90856
IRFIZ14G	60	0.2	8	5.7	5.5	27	90859
IRFIZ24N	55	0.07	13	9.2	5.8	26	91501
IRFIZ34N	55	0.04	19	13	4.8	31	91489
IRFIZ44N	55	0.024	28	20	0.024	38	91403
IRFIZ46N	55	0.02	31	22	3.8	40	91306
IRFIZ48N	55	0.016	36	25	3.6	42	91407
N-Channel	*Logic Level*						
IRLI3705N	55	0.01	47	33	3.2	47	91369
IRLI3803	30	0.006	67	47	3.1	48	91320
IRLI520N	100	0.18	7.7	5.4	5.5	27	91496
IRLI530G	100	0.16	9.7	6.9	3.6	42	90844
IRLI540N	100	0.044	20	14	3.6	42	91497



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Fully Isolated — **TO-220 FullPak**

IRLI620G	200	0.8	4.1	2.6	4.1	30	91235
IRLI630G	200	0.4	5.9	3.7	3.6	32	91236
IRLI640G	200	0.18	9.8	6.2	3.1	40	91237
IRLIZ14G	60	0.2	8	5.7	5.5	27	90846
IRLIZ24G	60	0.1	14	10	4.1	37	90847
IRLIZ24N	55	0.06	14	9.9	5.8	26	91344
IRLIZ34N	55	0.035	20	14	4.8	31	91329
IRLIZ44N	55	0.022	28	20	4	38	91498
P-Channel							
IRFI9540G	-100	0.117	-13	-9.2	3.6	42	90837
IRFI9540N	-100	0.117	-13	-9.2	3.6	42	91487
IRFI9634G	-250	1	-4.1	-2.6	3.6	35	91488
P-Channel	*Logic Level*						
IRFI9520G	-100	0.6	-5.2	-3.6	4.1	37	90835
IRFI9530G	-100	0.03	-7.7	-5.4	3.6	38	90836
IRFI9620G	-200	1.5	-3	-1.9	4.1	30	90874
IRFI9630G	-200	0.8	-4.3	-2.7	3.6	40	90838
IRFI9640G	-200	0.5	-6.1	-3.9	3.1	40	90839
IRFI9Z14G	-60	0.5	-5.3	-3.8	5.5	27	90840
IRFI9Z24G	-60	0.285	-8.5	-6	4.1	37	90841
IRFI9Z34G	-60	0.14	-12	8.5	3.6	38	90842

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Nominal Sense Number	Fax-on-Demand

HEXSENSE

TO-220 Hexsense

N-Channel

IRC530	100	0.16	14	10	1.7	88	1540	90454
IRC540	100	0.077	28	20	1	150	2810	90592
IRC630	200	0.4	9	5.7	1.7	74	1570	90565
IRC634	250	0.45	8.1	5.1	1.7	74	1580	90566
IRC640	200	0.18	18	11	1	125	2880	90568
IRC644	250	0.28	14	8.5	1	125	2900	90569
IRC730	400	1	5.5	3.5	1	74	1600	90567
IRC740	400	0.55	10	6.3	1	125	2940	90570
IRC830	500	1.5	4.5	3	1.7	74	1600	90455
IRC840	500	0.85	8	5.1	1	125	2970	90593
IRCZ24	60	0.1	17	12	2.5	60	820	90615
IRCZ34	60	0.05	30	21	1.7	88	1480	90590
IRCZ44	60	0.028	50	37	1	150	2720	90529

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Drain Current	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Qg Total Gate Charge (nC)	Fax-on-Demand

Discrete

TO-247AC

N-Channel	*Low Charge*							
IRFP350LC	**400**	**0.3**	**18**		**0.65**	**190**	**70**	**91229**
IRFP360LC	**400**	**0.2**	**23**		**0.45**	**280**	**98**	**91230**
IRFP450LC	**500**	**0.4**	**16**		**0.65**	**190**	**70**	**91231**
IRFP460LC	**500**	**0.27**	**20**		**0.45**	**280**	**98**	**91232**
IRFPC50LC	**600**	**0.6**	**13**		**0.65**	**190**	**70**	**91233**
IRFPC60LC	**600**	**0.4**	**16**		**0.45**	**280**	**98**	**91234**



Discrete

TO-247AC

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand
N-Channel							
IRFP044N	55	0.02	49	35	1.5	100	91410
IRFP048N	55	0.016	62	44	1.2	130	91409
IRFP054N	55	0.012	72	51	1.2	130	91382
IRFP064N	55	0.008	98	69	1	150	91383
IRFP140N	100	0.052	27	19	1.6	94	91343
IRFP150N	100	0.036	39	28	1.1	140	91503
IRFP240	200	0.18	20	12	0.83	150	90444
IRFP244	250	0.28	15	9.7	0.83	150	90588
IRFP250	200	0.085	30	19	0.65	190	90443
IRFP254	250	0.14	23	15	0.65	190	90540
IRFP260	200	0.055	46	29	0.45	280	90755
IRFP264	250	0.075	38	24	0.45	280	90756
IRFP340	400	0.55	11	6.9	0.83	150	90456
IRFP344	450	0.63	9.5	6	0.83	150	90998
IRFP350	400	0.3	16	10	0.65	190	90445
IRFP354	450	0.35	14	9.1	0.65	190	90995
IRFP360	400	0.2	23	14	0.45	280	90586
IRFP3710	100	0.028	51	36	0.83	180	91490
IRFP440	500	0.85	8.8	5.6	0.83	150	90457
IRFP448	500	0.6	11	6.6	0.7	180	90595

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_D Continuous Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation @ T_C = 25°C (W)	Fax-on-Demand

Discrete

TO-247AC

Part Number	$V_{(BR)DSS}$ (V)	$R_{DS(on)}$ (Ω)	I_D 25°C (A)	I_D 100°C (A)	$R_{\theta C}$ (°C/W)	P_D (W)	Fax-on-Demand
IRFP450	500	0.4	14	8.7	0.65	190	90458
IRFP460	500	0.27	20	13	0.45	280	90512
IRFPC30	600	2.2	4.3	2.7	1.2	100	90596
IRFPC40	600	1.2	6.8	4.3	0.83	150	90511
IRFPC48	600	0.82	8.9	5.6	0.73	170	90996
IRFPC50	600	0.6	11	7	0.65	180	90656
IRFPC60	600	0.4	16	10	0.45	280	90870
IRFPE30	800	3	4.1	2.6	1	125	90612
IRFPE40	800	2	5.4	3.4	0.83	150	90578
IRFPE50	800	1.2	7.8	4.9	0.65	190	90573
IRFPF30	900	3.7	3.6	2.3	1	125	90618
IRFPF40	900	2.5	4.7	2.9	0.83	150	90580
IRFPF50	900	1.6	6.7	4.2	0.65	190	90542
IRFPG30	1000	5	3.1	2	1	125	90621
IRFPG40	1000	3.5	4.3	2.7	0.83	150	90576
IRFPG50	1000	2	6.1	3.9	0.65	190	90543
P-Channel							
IRFP9140	-100	0.2	-21	-15	0.83	180	90480
IRFP9240	-200	0.5	-12	-7.5	0.83	150	90481



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_{DM} Pulse Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax-on-Demand

HEX-Pak Module

TO-240AA

N-Channel	*Parallel Chip*						
IRFK4H054	**60**	**0.005**	**150**	**960**	**0.25**	**500**	
IRFK4H150	**100**	**0.014**	**145**	**580**	**0.25**	**500**	
IRFK4H250	**200**	**0.021**	**108**	**432**	**0.25**	**500**	
IRFK4H350	**400**	**0.075**	**50**	**200**	**0.25**	**500**	
IRFK4H450	**500**	**0.1**	**44**	**176**	**0.25**	**500**	
IRFK4HC50	**600**	**0.175**	**35**	**140**	**0.25**	**500**	
IRFK4HE50	**800**	**0.3**	**26**	**104**	**0.25**	**500**	
IRFK4J054	**60**	**0.005**	**150**	**960**	**0.25**	**500**	
IRFK4J150	**100**	**0.014**	**145**	**580**	**0.25**	**500**	
IRFK4J250	**200**	**0.021**	**108**	**432**	**0.25**	**500**	
IRFK4J350	**400**	**0.075**	**50**	**200**	**0.25**	**500**	
IRFK4J450	**500**	**0.1**	**44**	**176**	**0.25**	**500**	
IRFK4JC50	**600**	**0.175**	**35**	**140**	**0.25**	**500**	
IRFK4JE50	**800**	**0.3**	**26**	**104**	**0.25**	**500**	
IRFK6H054	**60**	**0.003**	**350**	**1400**	**0.2**	**625**	
IRFK6H150	**100**	**0.01**	**150**	**720**	**0.2**	**625**	
IRFK6H250	**200**	**0.015**	**140**	**560**	**0.2**	**625**	
IRFK6H350	**400**	**0.05**	**75**	**300**	**0.2**	**625**	
IRFK6H450	**500**	**0.067**	**66**	**264**	**0.2**	**625**	
IRFK6HC50	**600**	**0.1**	**48**	**192**	**0.2**	**625**	

HEXFET® Power MOSFETs

International

Rectifier

Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_{DM} Pulse Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax-on-Demand
HEX-Pak Module							**TO-240AA**
IRFK6J054	60	0.003	350	1400	0.2	625	
IRFK6J150	100	0.01	150	720	0.2	625	
IRFK6J250	200	0.015	140	560	0.2	625	
IRFK6J350	400	0.05	75	300	0.2	625	
IRFK6J450	500	0.067	66	264	0.2	625	
IRFK6JC50	600	0.1	48	192	0.2	625	



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_{DM} Pulse Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax-on-Demand

HEX-Pak Module

TO-240AA

N-Channel *Half Bridge*

IRFK2D054	60	0.01	120	480	0.25	500	
IRFK2D150	100	0.028	72	288	0.25	500	
IRFK2D250	200	0.043	54	216	0.25	500	
IRFK2D350	400	0.15	25	100	0.25	500	
IRFK2D450	500	0.2	22	88	0.25	500	
IRFK2DC50	600	0.35	18	72	0.25	500	
IRFK2DE50	800	0.6	12	48	0.25	500	
IRFK2F054	60	0.01	120	480	0.25	500	
IRFK2F150	100	0.028	72	288	0.25	500	
IRFK2F250	200	0.043	54	216	0.25	500	
IRFK2F350	400	0.15	25	100	0.25	500	
IRFK2F450	500	0.2	22	88	0.25	500	
IRFK2FC50	600	0.35	18	72	0.25	500	
IRFK2FE50	800	0.6	12	48	0.25	500	
IRFK3D150	100	0.02	125	435	0.2	625	
IRFK3D250	200	0.03	70	280	0.2	625	
IRFK3D350	400	0.1	37	148	0.2	625	
IRFK3D450	500	0.135	33	132	0.2	625	
IRFK3DC50	600	0.23	24	96	0.2	625	
IRFK3F150	100	0.02	125	435	0.2	625	

HEXFET® Power MOSFETs



Part Number	$V_{(BR)DSS}$ Drain-to-Source Breakdown Voltage (V)	$R_{DS(on)}$ On-State Resistance (Ω)	I_D Continuous Drain Current 25°C (A)	I_{DM} Pulse Drain Current 100°C (A)	$R_{\theta C}$ Max Thermal Resistance (°C/W)	P_D Max. Power Dissipation (W)	Fax-on-Demand
IRFK3F250	200	0.03	70	280	0.2	625	
IRFK3F350	400	0.1	37	148	0.2	625	
IRFK3F450	500	0.135	33	132	0.2	625	
IRFK3FC50	600	0.23	24	96	0.2	625	

HEX-Pak Module

TO-240AA